

# AIR ARMAMENT CENTER

A large, intense fire or explosion dominates the center of the image. The fire is a bright orange and yellow, with large plumes of white and grey smoke billowing upwards. At the base of the fire, there is a dark, smoky area that looks like a field of fire. The background is a dark, cloudy sky.

Executive  
Overview

Director of Engineering

# Air Armament Center Missions



# Air Armament Center Missions



Space

GPS/INS



SSB



Tactical DE



Starfire Optical



Research  
and  
Development



Fuzes



Lasers

- Assess Emerging Technologies Through Applied Technology Demonstrations
- Create Partnerships with Industry and Academia

# Air Armament Center Missions



Command and Control



NRTF



PRIMES



McKinley



Test  
and  
Evaluation



Ranges

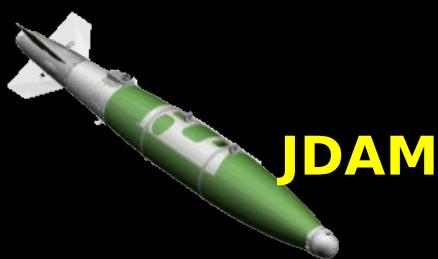


Sled Track

- Operates
  - Highly Instrumented Aircraft
  - Ground Facilities at Eglin and Holloman AFB's
- Manages Land and Gulf Test Ranges
- Conducts Test & Evaluation and Training
  - Air-Delivered Armament
  - Command & Control

# Air Armament Center Missions

- Designated Acquisition Commander
- Cradle-to-Grave Management Of All Air-Delivered Munitions
- Aerial Targets/Range System Acquisition
- Air Base Systems Acquisition
- Program New Starts
- Program Planning



Acquisition

# Air Armament Center Missions



30MM Gun



AIM-9



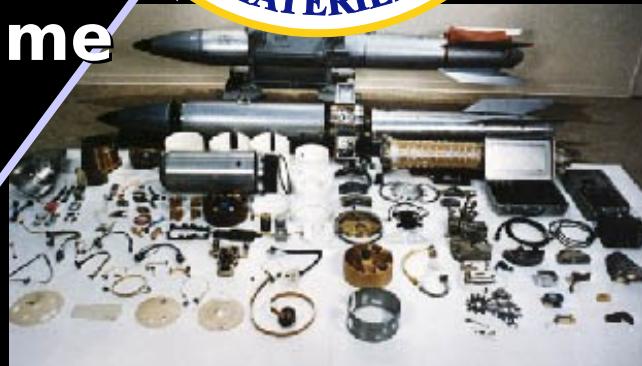
Munitions Materiel  
Handling Equipment

- Air Armament Sustainment Strategic Plan
- System Enhancements
- Preposition Assets
- Disposition

Modificatio  
n  
and  
Sustainme  
nt



CEM



Nuclear Sustainment



AGM-88

# Air Armament Center Missions

Base  
Operatin  
g  
Support

Kirtland Air Force Base  
New Mexico

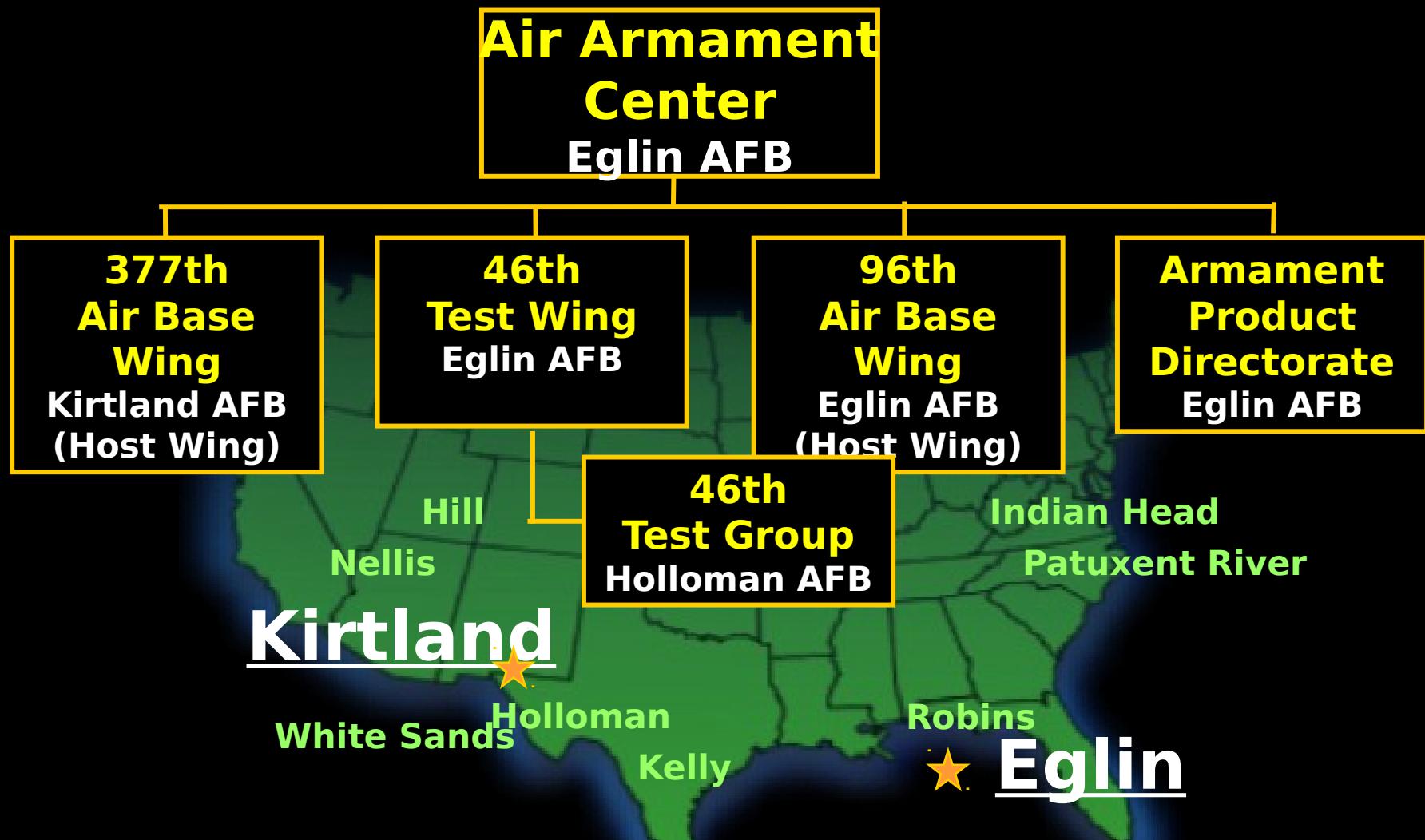


Eglin Air Force Base  
Florida



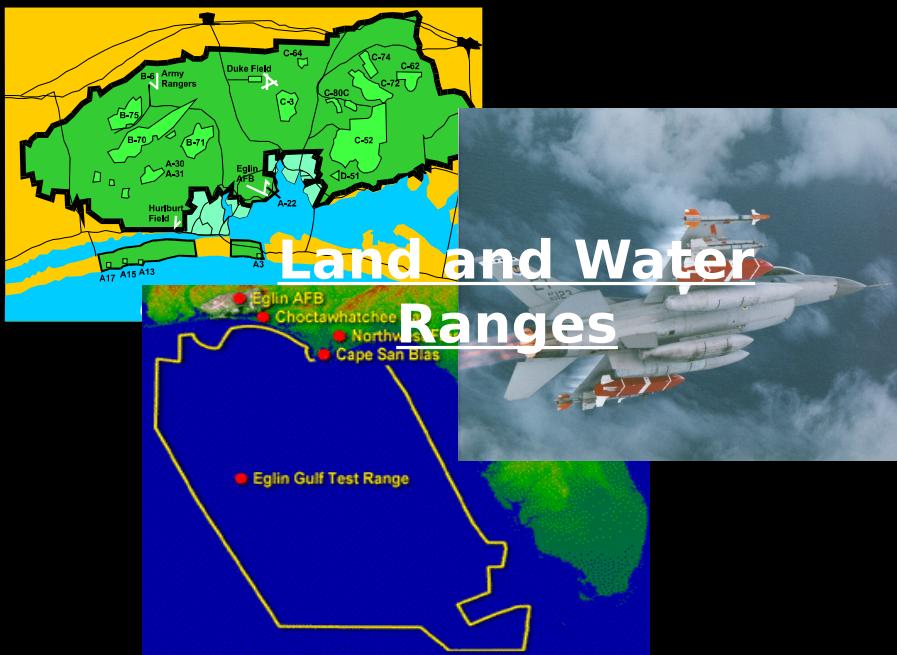
- 2 Major Installations
- Over 35,000 Personnel
- More than 250 Tenant Organizations

# Air Armament Team



# 46<sup>TH</sup> TEST WING

**Conducts testing and evaluation of armament, guidance, command and control (C2), and other specialized systems.**



**World-Class Facilities**



# Eglin's Land Ranges

**463,448 Acres  
724 Square  
Miles**



**Gulf of Mexico**

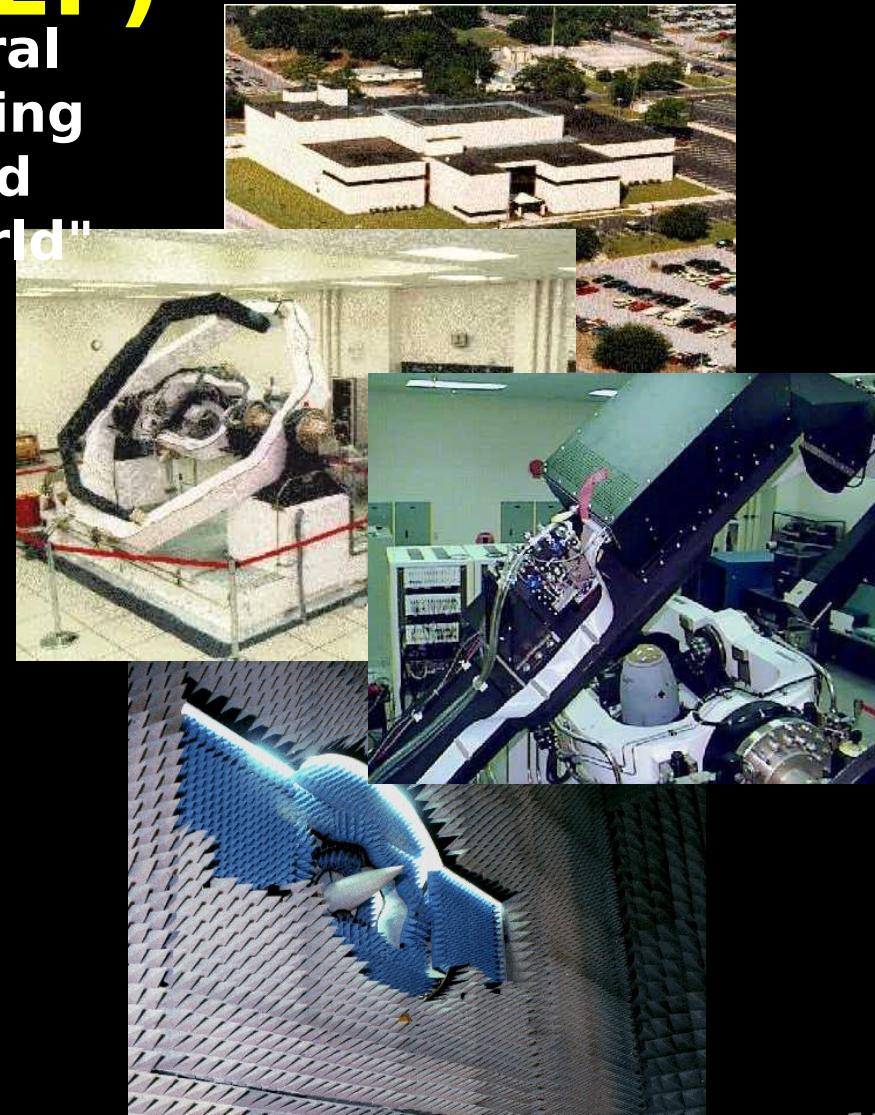
# Eglin's Water Ranges



# Guided Weapons Evaluation Facility (GWEF)

The GWEF provides multispectral simulation support for developing and evaluating precision-guided weapons in simulated "real world" environments. The GWEF Test Complex includes 6 major test areas

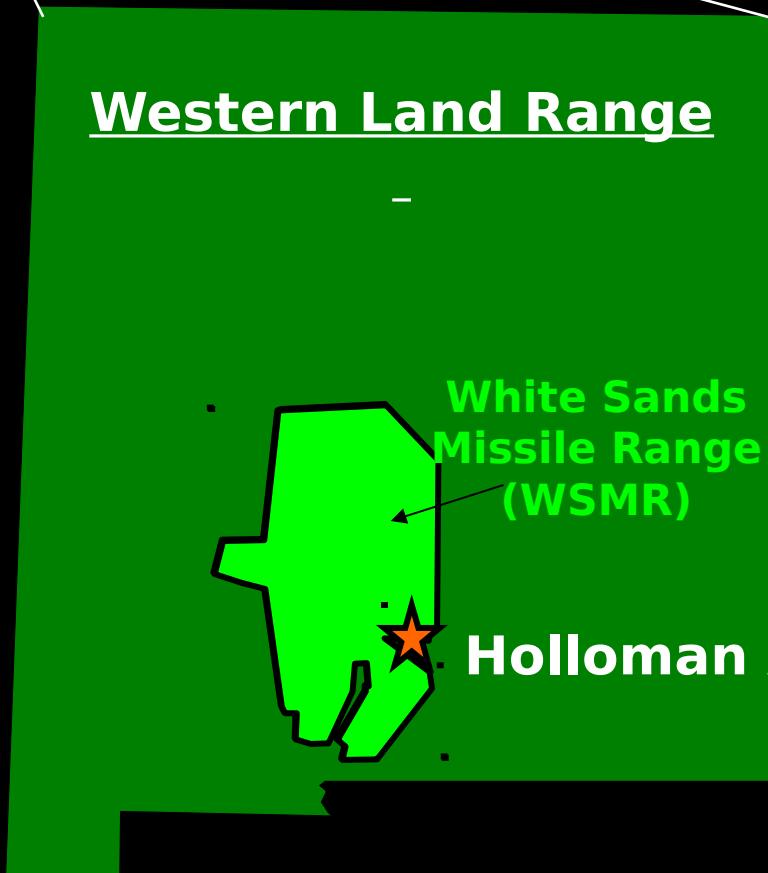
- **Visible (Electro-Optical)**
- **Infrared (IR)**
- **Laser**
- **Radio Frequency (RF)**
- **Millimeter Wave (MMW)**
- **Midcourse INS/GPS**



# 46<sup>TH</sup> TEST WING

## 46<sup>th</sup> Test Group

Operates world-class facilities for navigation and guidance system test, radar signature measurement, and the high speed sled track environment



# ARMAMENT PRODUCT DIRECTORATE

Armament  
Product Directorate

AFPEO  
Weapons

DAC Programs



**Sustainment at ALCs**

**plans for, develops,  
produces, fields, and  
sustains *all* air delivered  
munitions**



**Acquire Effective & Reliable Weapons For Our Warfighters**

# Air-to-Air Joint Program Office

## Advanced Medium Range Air-to-Air Missile (AMRAAM)

Latest Generation, all-weather, radar  
guided Air-to-Air Missile

- Beyond visual range kill capability
- Autonomous guidance - *Launch & Leave*
- Engage multiple targets in a single pass



# Air-to-Air Joint Program Office

## AIM-9X

**Next generation tactical  
short range air-to-air  
missile**



- **Expands AIM-9M capabilities - range, detection, etc.**
- **Joint program (Navy lead)**



# Joint Direct Attack Munition (JDAM)

**Low-cost INS/GPS guidance kit that converts existing unguided bombs into accurate “smart” munitions - BLU-109/MK-84 2000 lb warhead; BLU-110/MK-83 1000 lb warhead**

- Autonomous Guidance - *Fire and Forget*
- Compatible with AF and Navy aircraft
- In-flight Captive Carriage retargeting
- Single Pass Versatility
- All Weather operation



# Area Attack Joint Standoff Weapon (JSOW)

**Family of low-cost, all weather, 1000 lb class  
standoff weapons**

- Common vehicle . . . different payloads
  - AGM-154A ... BLU-97 bomblet (CEM)
  - AGM-154B ... BLU-108 submunition (S)
  - AGM-154C ... BLU-111 unitary warhead
- Multiple carriage smart rack for F-16 and F/A-18



# Joint Air-to-Surface Standoff Missile (JASSM)

**Autonomous, precision strike, standoff weapon designed to attack heavily defended, high priority targets**

**Fixed and Relocatable targets: soft, above ground and hardened, shallow buried**

- Beyond range of enemy air defenses**



# Area Attack Sensor Fuzed Weapon

**1000 pound class unpowered, wide-area cluster munition**

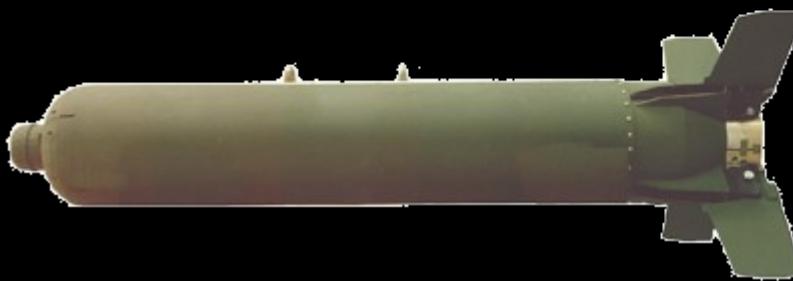
- **Multiple kills per pass against armor and support vehicles**
- **10 BLU-108 Submunitions with four projectiles each**



# **Area Attack Wind Corrected Munitions Dispenser (WCMD)**

**Low cost, smart guidance tail-kit for cluster weapons - CEM, GATOR, SFW**

- Compensates for winds aloft, surface winds and adverse weather
- Deployed from medium to high altitudes
- Accuracy of < 85 feet from altitudes up to 45,000 feet



# Precision Strike Systems

## AGM-130

**Retargetable, precision-guided standoff weapon designed to attack high value, fixed, relocatable or slow-moving targets**

- **Horizontal or Vertical targets (BLU-109/MK-84 warheads)**
- **INS/GPS Navigation**
- **TV or Imaging Infrared Seeker**
- **Outside Point Defenses**
- **Inflight missile retargeting**



# Precision Strike Systems

## Fuzes

### Joint Programmable Fuze

- Multi-function fuze for JDAM
- Instantaneous and multiple delays
- Cockpit Programmable



### Hard Target Smart Fuze

- Optimize weapon's burst point
- Accelerometer Based
- Preprogrammed with Ground Unit



Hard Target Smart Fuze

# Lethal Suppression of Enemy Air Defenses

## AGM-88 B&C

### High-Speed Anti-Radiation Missile (HARM) Tactical radar homing missile

- Destroy or suppress surface-to-air radar threats
- Compatible with F-16 C/D



# Lethal Suppression of Enemy Air Defenses

**ADM-160A**

**Miniature Air Launched Decoy  
(MALD)**



- **Small, low-cost, expendable decoy**
- **Threat stimulation, deception and saturation**
- **Range > 250 miles**
- **Altitude > 30,000 feet**



# Air Base Systems

# **Expeditionary support equipment enabling USAF wartime air base operations and facilitating support of military operations other than war**

- **Facilities, Utilities, Airfield and Firefighting**
- **Capitalize on commercial technology**
- **Lower cost, lighter, easier to de**



# Nuclear Weapons Product Support Center

**The Nuclear Weapons Product Support Center at Kirtland AFB maintains, modifies, and retires non-conventional warheads and associated weapons systems. The Nuclear Weapons Division is responsible for supporting nuclear weapons and warheads**





MUNITIONS DIRECTORATE  
S&T

**RDT&E**  
**OPERATIONS**

ARMY RANGERS



COAST GUARD



NAVY EOD



AFSOC/16th SOW/919th SOW  
SPECIAL OPERATIONS

AAC  
TOTAL ARMAMENT RESPONSIBILITY  
and BASE SUPPORT

AFOTEC, 53 WING, & UAV  
BATTLELAB



**PROUD  
PAST**



# Summary



**BRIGHT  
FUTURE**

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